

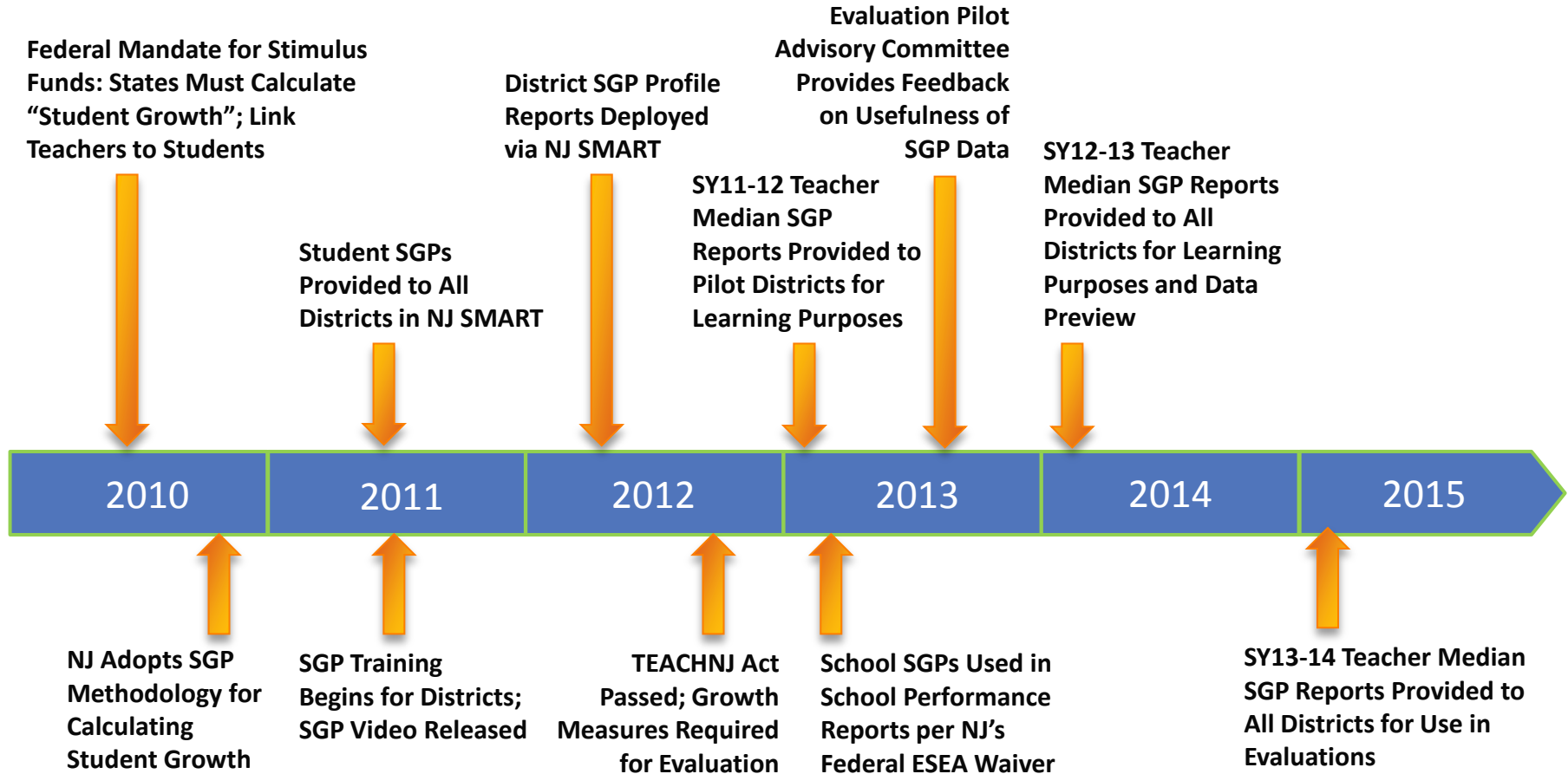


# OVERVIEW OF STUDENT GROWTH PERCENTILE (SGP)

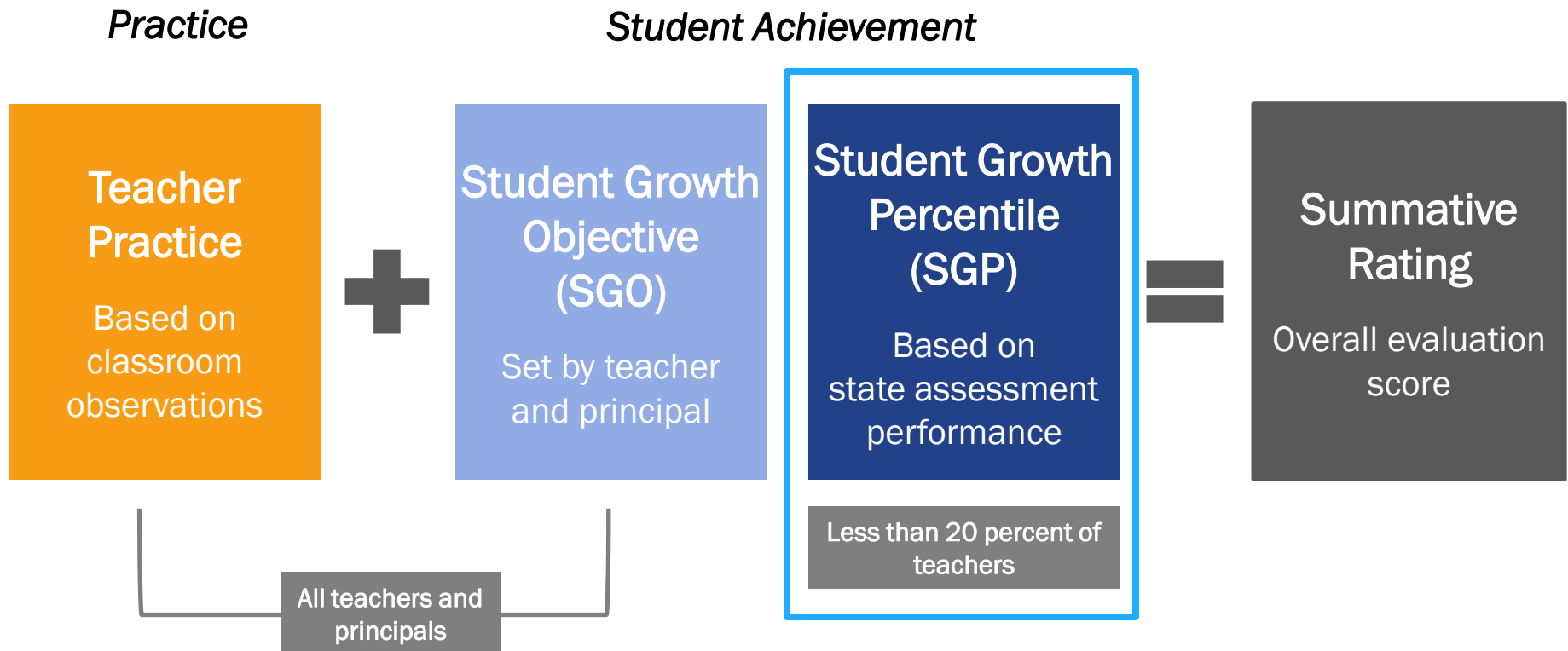
Updated December 2014

# Development of Student Growth Percentiles (SGPs)

- *New Jersey has taken a **thoughtful, multi-year approach** to ensure SGP data is accurate and usable.*
- ***SGP resources and trainings** will continue to be provided for educators in 2014 and beyond.*
- *SGP data will continue to be available to **authorized NJ SMART users** in every district.*



# Student Growth Percentile Overview



# Calculating Student Growth Percentiles

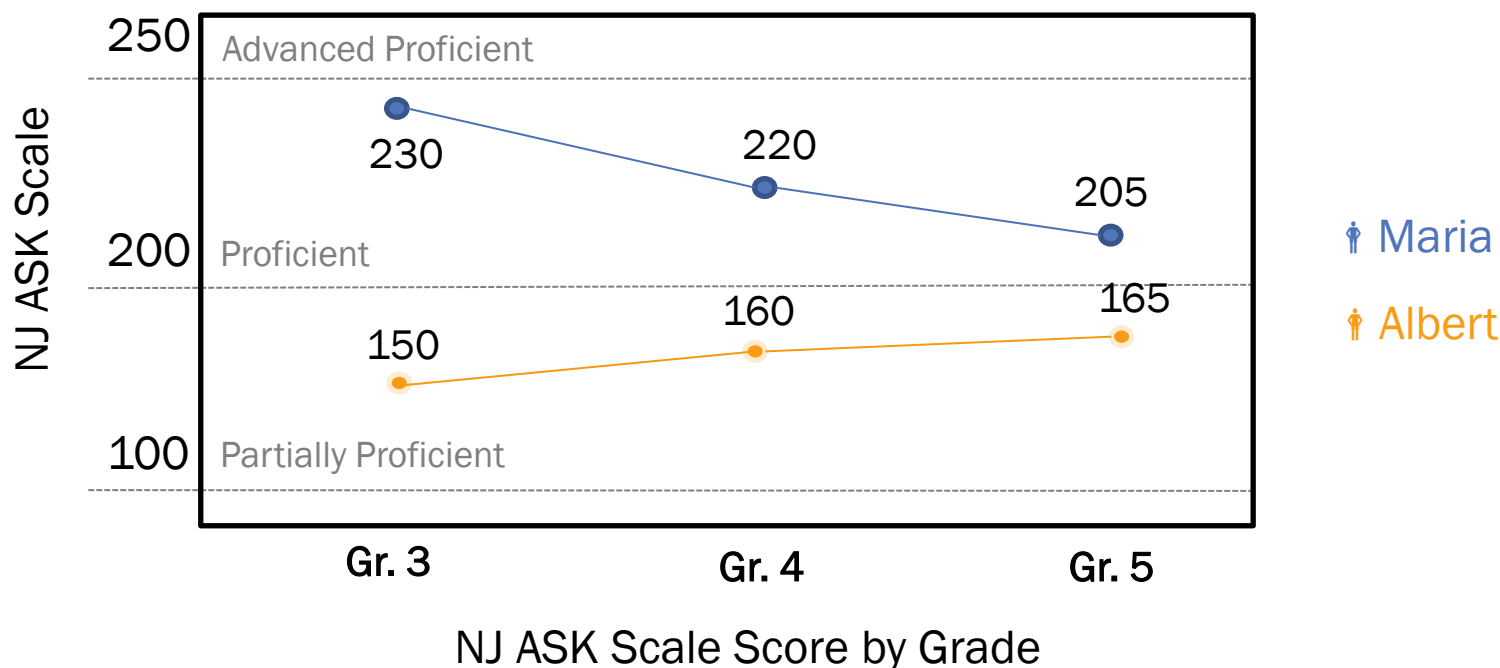


All students can show growth.

- Student Growth Percentiles (SGPs) measure how much a student has learned from one year to the next compared to students with a similar performance history from across the state (“academic peers”).

# Why Student Growth?

A student's NJ ASK score does not tell the whole story.



Under our current system, schools and parents might only notice that Maria is “Proficient” and that Albert is “Partially Proficient.”

# SGP Considers Growth, Not Proficiency

Albert has taken the 5<sup>th</sup>-grade NJ ASK.  
How does his score compare to those  
of his academic peers?

## Albert's Prior Scores



3 <sup>rd</sup> Gr.	150
4 <sup>th</sup> Gr.	160
5 <sup>th</sup> Gr.	165

## Academic Peers' Prior Scores

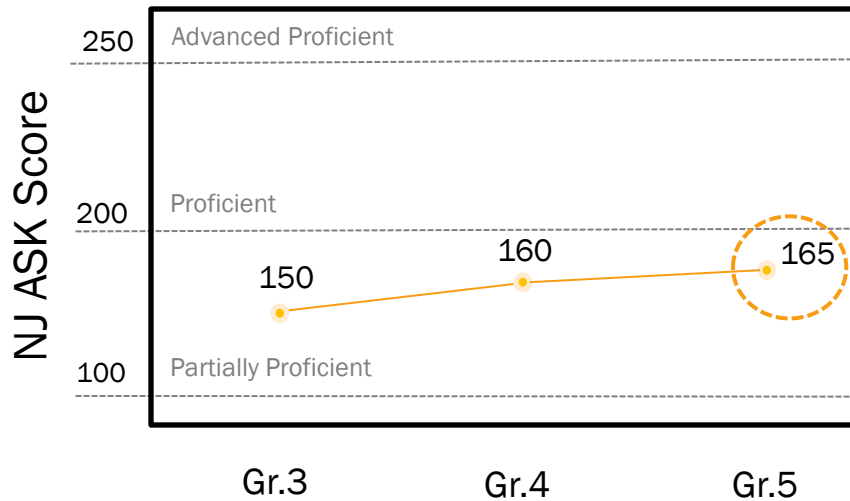


3 <sup>rd</sup> Gr.	≈150
4 <sup>th</sup> Gr.	≈160
5 <sup>th</sup> Gr.	???

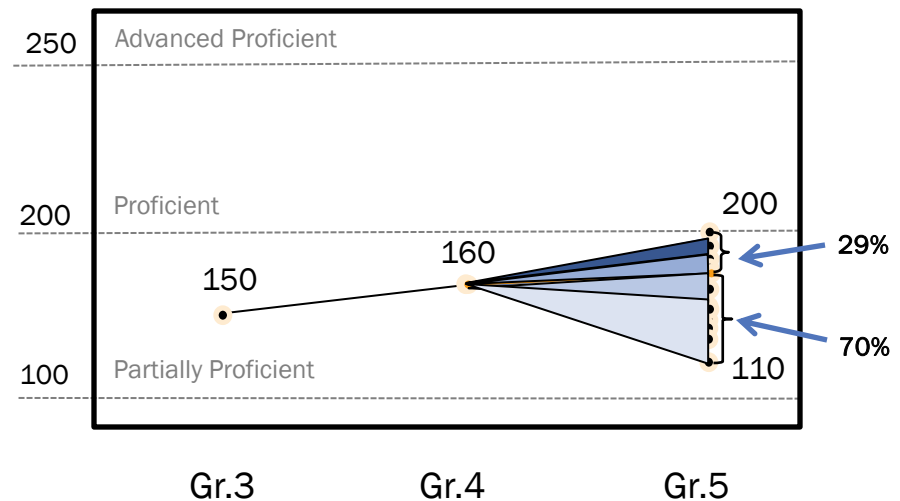


# Determining an SGP

Albert's 5<sup>th</sup>-Grade NJ ASK Score

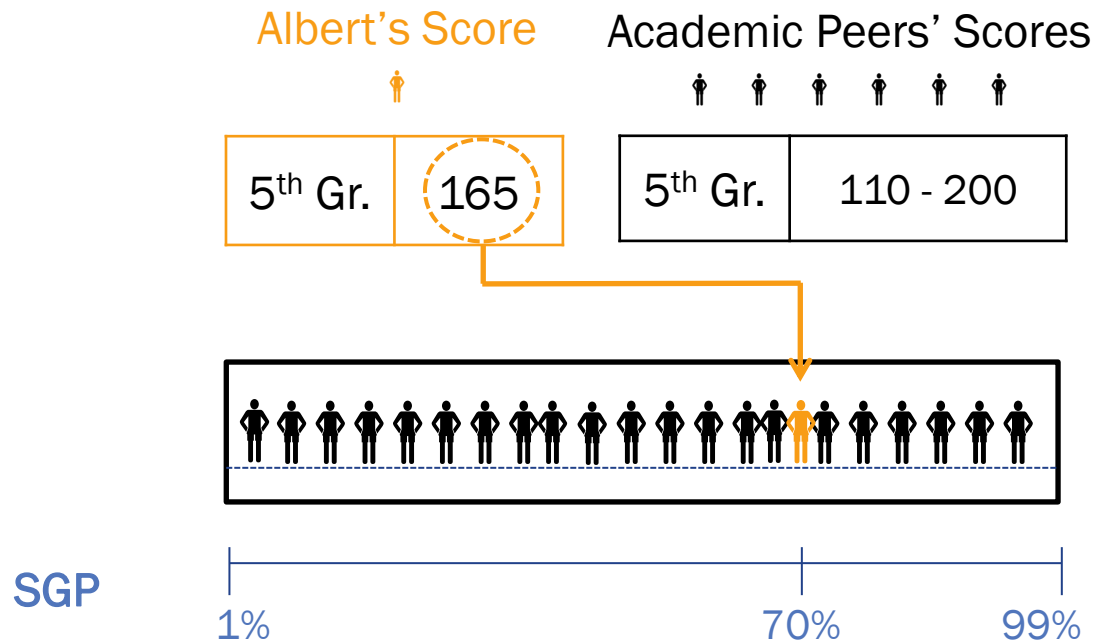


Albert's Academic Peers' NJ ASK Scores



Albert scored 165. His academic peers scored between 110 and 200.  
How did Albert do in comparison to them?

# Determining an SGP

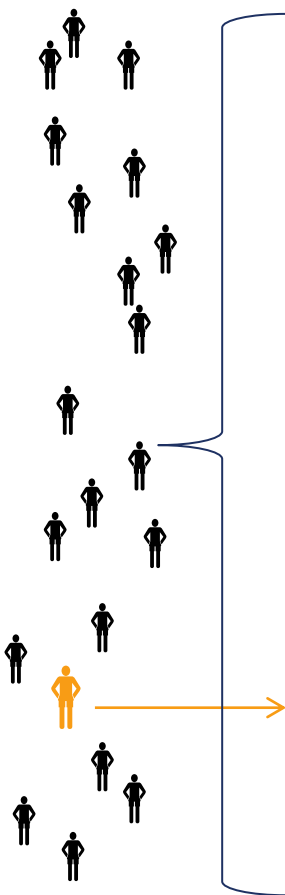


A comparison to his academic peers allows us to see that Albert actually outperformed 70% of students who, up until this year, performed in a similar manner to Albert. His SGP score is 70.

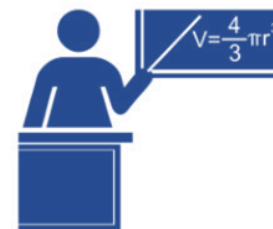


# Determining a Teacher's mSGP Rating

Albert's SGP is arranged along with the SGPs of all his teacher's students from low to high.



Student	SGP Score
Hugh	12
Eve	16
Clarence	22
Clayton	24
Earnestine	25
Helen	31
Clinton	35
Tim	39
Jennifer	44
Jaquelyn	46
Lance	51
Roxie	53
Laura	57
Julio	61
Selena	65
Ashlee	66
Albert	70
Mathew	72
Marcus	85
Charles	89
Milton	97



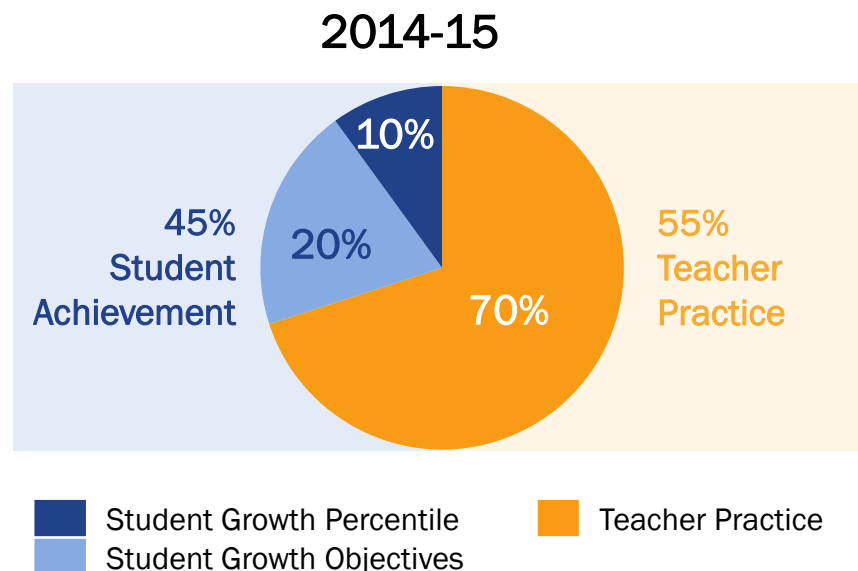
Median SGP Score

Albert's teacher receives an effectiveness rating by taking the median SGP score – in this case, 51.

# mSGP Qualification and Weighting

To receive an mSGP score, teachers must:

1. Teach a 4<sup>th</sup>–8<sup>th</sup> grade Language Arts/4<sup>th</sup>-7<sup>th</sup>-grade\* Math class, **and**
  2. Be the teacher of record for at least 60% of the course prior to the assessment, **and**
  3. Have at least 20 separate students with valid SGP scores who are enrolled in the class for at least 70% of the school year before they take the test.
- About 15-20% of New Jersey teachers will qualify



\*SGP will not be calculated for 8<sup>th</sup>-grade Math for 2014-15.

# mSGP Technical Rules

Median this Year = 51

Student	SGP Score
Hugh	12
Eve	16
Clarence	22
Clayton	24
Earnestine	25
Helen	31
Clinton	35
Tim	39
Jennifer	44
Jaquelyn	46
Lance	51
Roxie	53
Laura	57
Julio	61
Selena	65
Ashlee	66
Albert	70
Mathew	72
Marcus	85
Charles	89
Milton	97

In future years, teachers should know that:

- If two or three years of data are available, **the Department will use the best available score** – either the teacher's median score of their current roster or the median of all student scores over the years available.

**The SGP score will then be placed on a 1.0 - 4.0 scale.**

Median over 2 years = 56

Student	SGP Score
Hugh	12
Eve	16
John	16
Charles	20
Annie	20
Clarence	22
Clayton	24
Earnestine	25
Jake	27
Helen	31
Rachel	33
Clinton	35
Tim	39
George	41
Amber	42
Jennifer	44
Jaquelyn	46
Bobby	50
Lance	51
Roxie	53
Mike	55
Mel	56
Laura	57
Regina	58
Marissa	60
Julio	61
Faye	63
Selena	65
Ashlee	66
Jackie	67
Courtney	68
Albert	70
Matthew	72
Laura	77
Jack	78
Jared	80
Rick	84
Marcus	85
Charles	89
Michelle	92
Molly	95
Milton	97

# mSGP Conversion from 1 - 99 to 1.0 - 4.0

mSGP Score	Evaluation Rating
1 - 20	1
21	1.1
22	1.2
23	1.3
24	1.4
25	1.5
26	1.6
27	1.7
28	1.8
29	1.9
30	2
31	2.1
32	2.2
33	2.3
34	2.4

mSGP Score	Evaluation Rating
35	2.5
36	2.5
37	2.6
38	2.6
39	2.7
40	2.7
41	2.8
42	2.8
43	2.9
44	2.9
45	3
46	3
47	3
48	3
49	3

mSGP Score	Evaluation Rating
50	3
51	3
52	3
53	3
54	3
55	3
56	3.1
57	3.1
58	3.2
59	3.2
60	3.3
61	3.3
62	3.4
63	3.4
64	3.4

mSGP Score	Evaluation Rating
65	3.5
66	3.5
67	3.5
68	3.6
69	3.6
70	3.6
71	3.7
72	3.7
73	3.7
74	3.8
75	3.8
76	3.8
77	3.9
78	3.9
79	3.9
80 - 99	4

Based on the mSGP score, Albert's teacher receives a rating of 3 for this component, which is then combined with other evaluation components to get a summative rating.

# SGP Conversion Chart Explained

mSGP Score	Evaluation Rating
35	2.5
36	2.5
37	2.6
38	2.6
39	2.7
40	2.7
41	2.8
42	2.8
43	2.9
44	2.9
45	3.0
46	3.0
47	3.0
48	3.0
49	3.0
50	3.0
51	3.0
52	3.0
53	3.0
54	3.0
55	3.0
56	3.1
57	3.1
58	3.2
59	3.2
60	3.3
61	3.3
62	3.4
63	3.4
64	3.4

Why are all the values between 45 and 55 set to the same score (3.0)?

- The Department believes that educators in the middle of the mSGP distribution are driving significant academic growth in their students.
- Educators whose students achieve scores in this range should be recognized by receiving a rating on par with their impact.

# SGP Conversion Chart Explained

mSGP Score	Evaluation Rating
1 - 20	1.0
21	1.1
22	1.2
23	1.3
24	1.4
25	1.5
26	1.6
27	1.7
28	1.8
29	1.9
30	2.0
31	2.1
32	2.2
33	2.3
34	2.4

Why are the values at the extreme ends of the distribution, 1-20 = 1 in this case (and 80-99 = 4), set to the same score?

- When more than half of a teacher's students are in the top 20 percentile points on the SGP scale it is an indication of very high growth.
- When more than half of a teacher's students are in the bottom percentile points this is an indicator of low growth to be considered with other evidence.

mSGP Score	Evaluation Rating
65	3.5
66	3.5
67	3.5
68	3.6
69	3.6
70	3.6
71	3.7
72	3.7
73	3.7
74	3.8
75	3.8
76	3.8
77	3.9
78	3.9
79	3.9
80 - 99	4.0

# SGP Conversion Chart Explained

mSGP Score	Evaluation Rating
65	3.5
66	3.5
67	3.5
68	3.6
69	3.6
70	3.6
71	3.7
72	3.7
73	3.7
74	3.8
75	3.8
76	3.8
77	3.9
78	3.9
79	3.9
80 - 99	4.0

## Why Decimals? Why Tenths?

- The use of decimals instead of whole numbers enables the scale to increase/decrease gradually, improving the statistical efficiency of the conversion.
- This prevents large rating differences that may not accurately reflect significant differences in student learning.



## FIND OUT MORE:

[www.nj.gov/education/AchieveNJ](http://www.nj.gov/education/AchieveNJ)

<http://www.nj.gov/education/AchieveNJ/teacher/percentile.shtml>

[educatorevaluation@doe.state.nj.us](mailto:educatorevaluation@doe.state.nj.us)

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